

## ABSTRACT OF THE DISCLOSURE

Techniques are disclosed for enhancing the speed at which pixel levels are read out and sampled for processing. A 5 method of processing pixel levels includes clamping a pixel readout line to a voltage level less than a voltage corresponding to a signal sensed by an n-MOS pixel. Subsequently, the pixel readout line is coupled to an output of an n-MOS source-follower and the pixel signal is read out 10 onto the pixel readout line through the n-MOS source-follower. The pixel signal that was read out is passed through a p-MOS source-follower to a processing circuit. Before passing the pixel signal through the p-MOS source-follower to the processing circuit, a capacitive storage node in the 15 processing circuit is clamped to a voltage greater than a signal at an input to the p-MOS source-follower. Subsequently, an output of the p-MOS source-follower is coupled to the processing circuit, and a signal corresponding to the pixel signal is stored by the processing circuit. Similar 20 techniques are provided for reading out and sampling p-MOS pixels.